



APICAL INDUSTRIES, INC.  
dba DART AEROSPACE

ENGINEERING CHANGE NOTICE NO.

05098

SHEET 1 OF 4

DWG NO. 646.4000

REV: B

PREPARED BY

J. BECKER

DATE: 09/08/15

EFFECT ON DWG  
☒ INC. ☐ UNINC.

DWG TITLE: AS350 CABLE CUTTERS KIT

APPROVED BY:

ENGR

MFG

QC

EFF.

CURRENT ORDER

TRANSACTION CODES (TC):  
A-ADD C-CREATE  
R-REVISE D-DELETE

REASON: ADDED LOWER CUTTER PROVISIONS KIT. INSERTED SHEET 2.  
ADDED F/N'S 77 & 78

ECR:  
NONE

## SHEET 1, BOM IS:

ACTION ITEM:  
1. UPDATE MO.

25	R	601.2825		2		2		2	BOLT	AN3-6A	
24	R	646.3811		1		1		1	RADIUS BLOCK		
23	R	646.3712		1		1		1	CLIP		
22	R	646.3711		1		1		1	CLIP		
21	R	601.2832	8		8			8	RIVET	MS20470AD5-5.5	
20	R	601.2020	14		14			14	RIVET	CR3213-5-3	
19	R	601.2823	4	6	4	6		10	BOLT	AN3-4A	
18	R	601.2822		1		1		1	BOLT	AN3-13A	
17	R	601.2912		5		5		5	SCREW	MS24694S51	
16	R	646.3712	1		1			1	GUSSET		
15	R	646.3210	1		1			1	SUPPORT		
13	R	646.3110		1		1		1	CHANNEL		
12	R	601.1624	14	10	8	53		61	LOCKNUT	MS21042L3	
11	R	601.1607	16	32	18	120		144	WASHER	NAS1149F0332P	
6	R	646.3511		1		1		1	STRUT		
5	R	646.3510		1		1		1	STRUT		
4	R	646.3810	2		2			2	BRACKET		
2	R	646.3001		1		1		1	LOWER CUTTER ASSY		
	C	646.4006	X						LOWER CUTTER FIXED PROVISIONS		
	C	646.4005		X					LOWER CUTTER REMOVABLE PROVISIONS		
F/N	TC	PART NUMBER	4006	4005	4004	4003	4002	4001	DESCRIPTION	MATERIAL	SPECIFICATION
			QTY								

DOCUMENTS EFFECTED:

☐ PATTERN ☐ MDL ☒ INSTALL INSTRUCTIONS ☒ ICA ☐ FMS ☒ BOM

CHANGE CATEGORY

☐ MAJOR ☒ MINOR

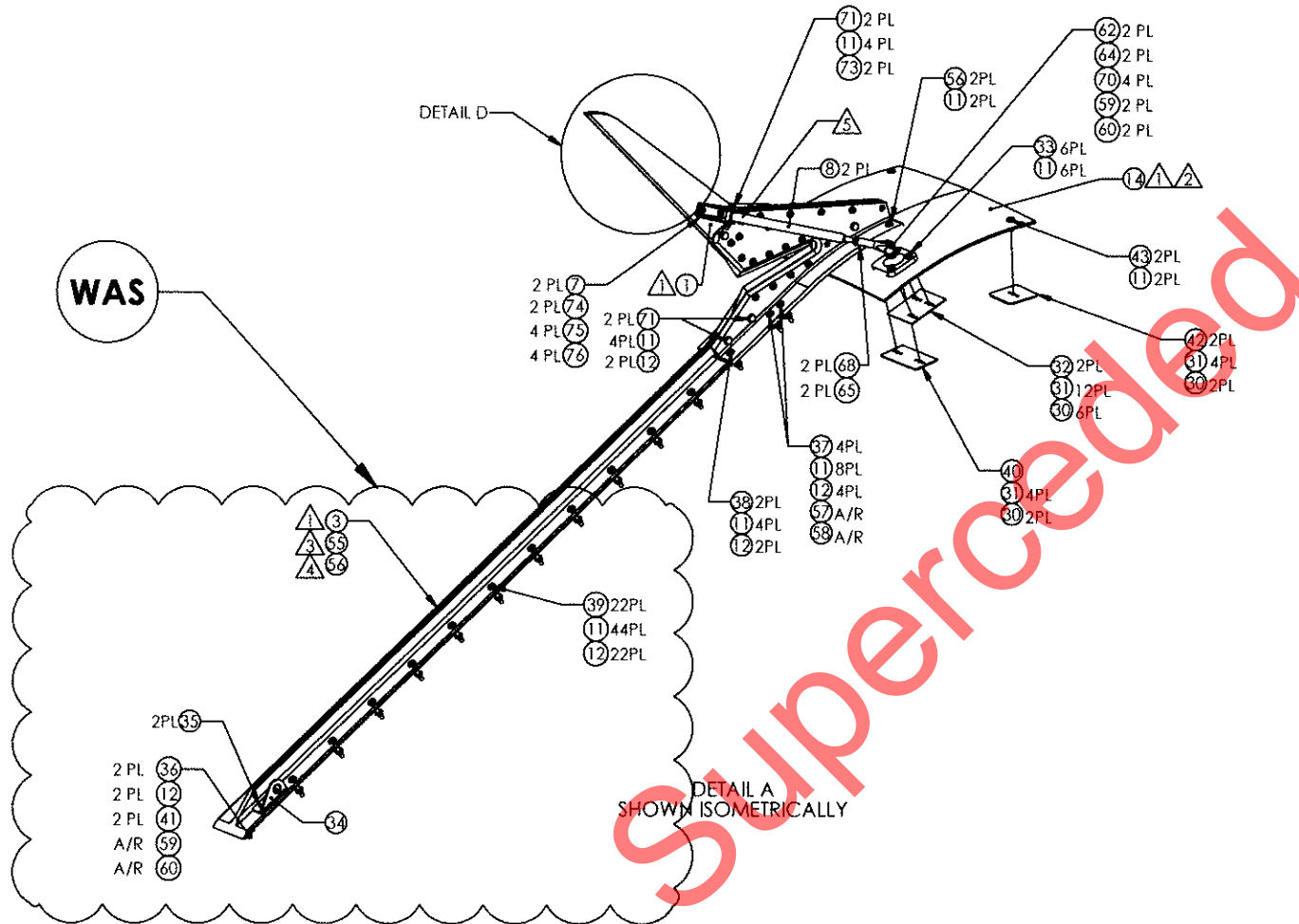
DER REVIEW REQUIRED

☒ YES ☐ NO

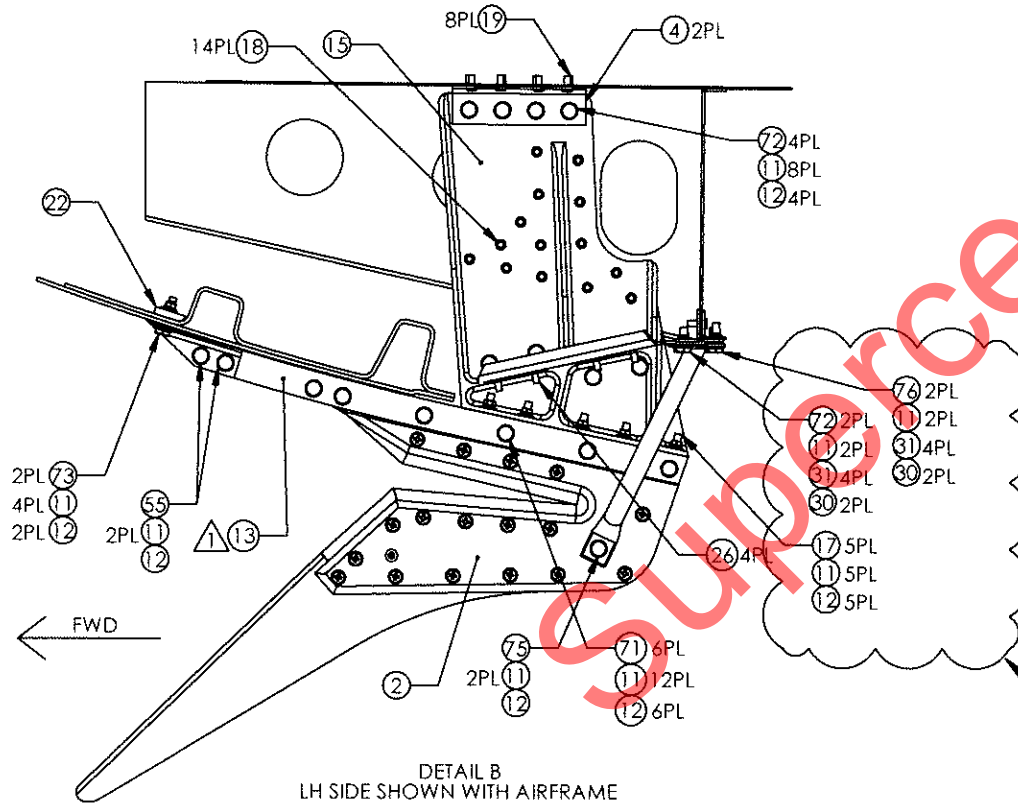
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78	A	601.3875		5		5		5	SCREW	MS24693C278/8	
77	A	646.9410		1		1		1	SHIM	8	
62	R	601.2637				24		24			
61	R	601.2763		2		2		2	BOLT	AN3-12A	
35	R	601.2277	12		36			36	RIVET	CCR264SS-3-02	
34	R	600.0795	6		18			18	NUTPLATE	MS21047-3	
33	R	601.2565	3		3			3	RIVET	MS20470AD5-7	
32	R	646.3813	1		1			1	STRUT BRACKET		
31	R	601.2822	4		4			4	BOLT	AN3-3A	
30	R	646.3812	2		2			2	GUSSET BRACKET		
29	R	601.2564	8		8			8	RIVET	MS20470AD5-6	
28	R	646.3714	1		1			1	GUSSET		
27	R	646.3610		1		1		1	FILLER		
26	R	601.2830		3		3		3	SCREW	MS24694S55	
F/N	TC	PART NUMBER	4006	4005	4004	4003	4002	4001	DESCRIPTION	MATERIAL	SPECIFICATION
			QTY								

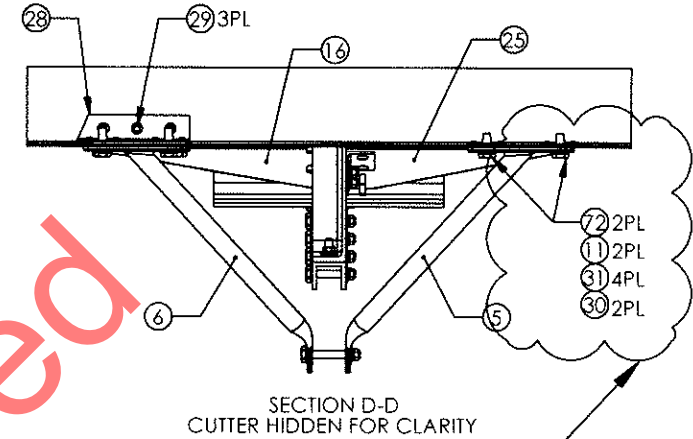
**SHEET 2, ZONE C3 WAS:**



**SHEET 3, ZONE B3 WAS:**



**SHEET 3, ZONE A6 WAS:**

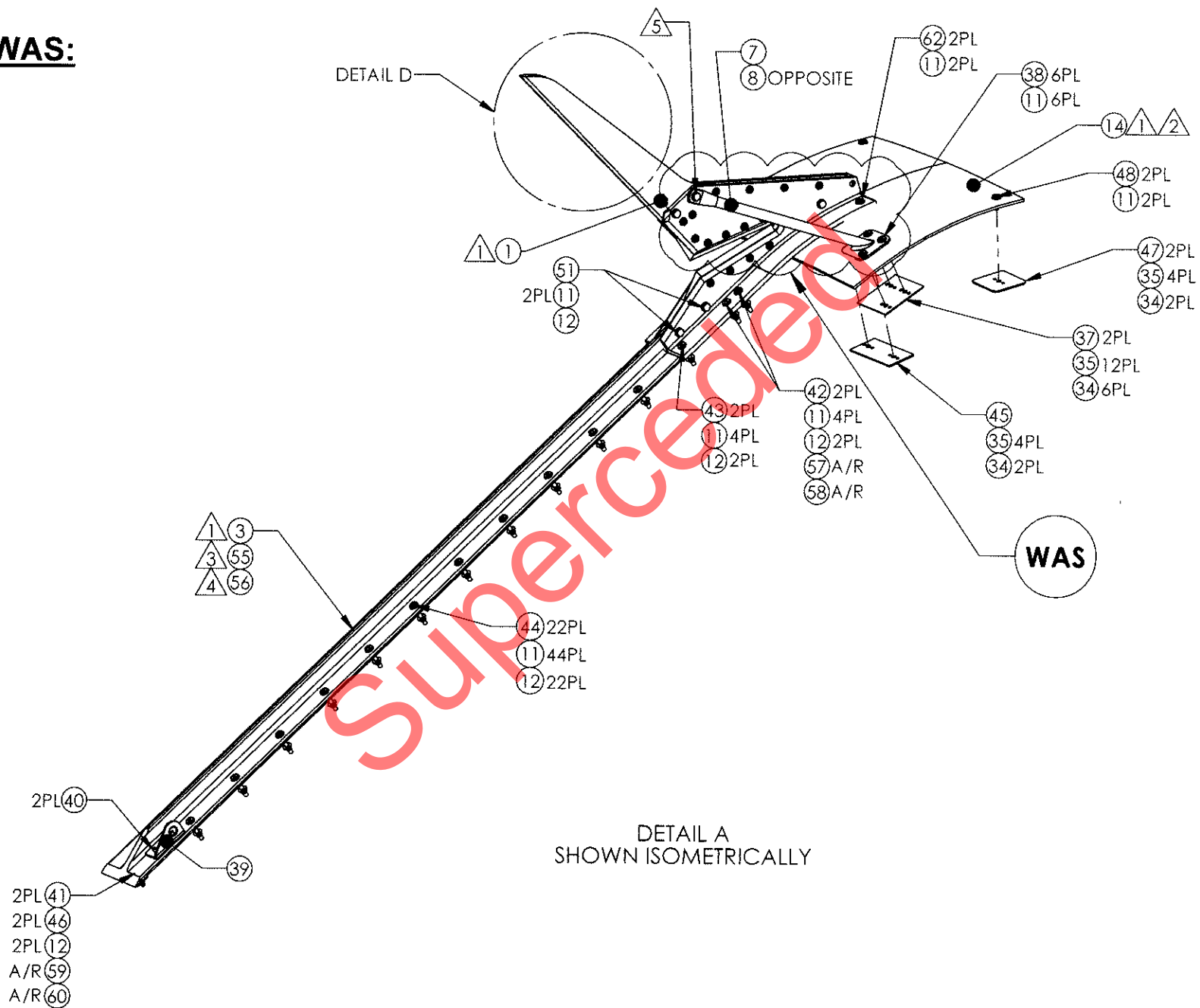


WAS

WAS

<b>APICAL</b>  INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 04731				SHEET 1 OF 2	
	DWG NO. 646.4000	REV: A	PREPARED BY J. SOTO	DATE: 11/04/2014		EFFECT ON DWG <input checked="" type="checkbox"/> INC. <input type="checkbox"/> UNINC.
	DWG TITLE: AS350 CABLE CUTTERS KIT					
	APPROVED BY:	ENGR <i>T. Bravo</i>	MFG <i>Dave Baker</i>	QC <i>[Signature]</i>	EFF. NEXT ORDER	
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE	REASON: REVISED BOM. INCORPORATED ECN 03046 AND 03079.					

76	A	601.2764	4	4	WASHER	NAS1149FN832P	
75	A	601.2973	2	2	LOCKNUT	MS21042-08	
74	A	601.2988	2	2	SCREW	MS27039-0813	
73	A	601.2943	2	2	LOCKNUT	MS21042-3	
72	A	601.3128	2	2	NUT	AN316C4R	
71	A	601.3209	2	2	LOCKNUT	MS21042L4	
70	A	601.2638	4	4	WASHER	NAS1149F0432P	
69	A	601.2669	2	2	BOLT	AN4C7A	
68	A	601.3119	2	2	CLEVIS	AN665-34R	
67	A	601.3121	2	2	EYE BOLT	AN44-57	
66	A	650.9201	2	2	EYE BRACKET ASSY		
51	R	601.2926	10	10	BOLT	AN3-11A	
12	R	601.1624	53	61	LOCKNUT	MS21042L3	
11	R	601.1607	120	138	WASHER	NAS1149F0332P	
8	R	647.7703	2	2	STRUT ASSY		
7	R	647.0112	2	2	STRUT BRACKET		
F/N TC	PART NUMBER	.4003	.4001				
		QTY			DESCRIPTION	MATERIAL	SPECIFICATION
DOCUMENTS EFFECTED:					CHANGE CATEGORY		
<input type="checkbox"/> MDL <input checked="" type="checkbox"/> INSTALL INSTRUCTIONS <input checked="" type="checkbox"/> ICA <input type="checkbox"/> FMS <input checked="" type="checkbox"/> BOM					<input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR		
					DER REVIEW REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		

**SHEET 2 WAS:**

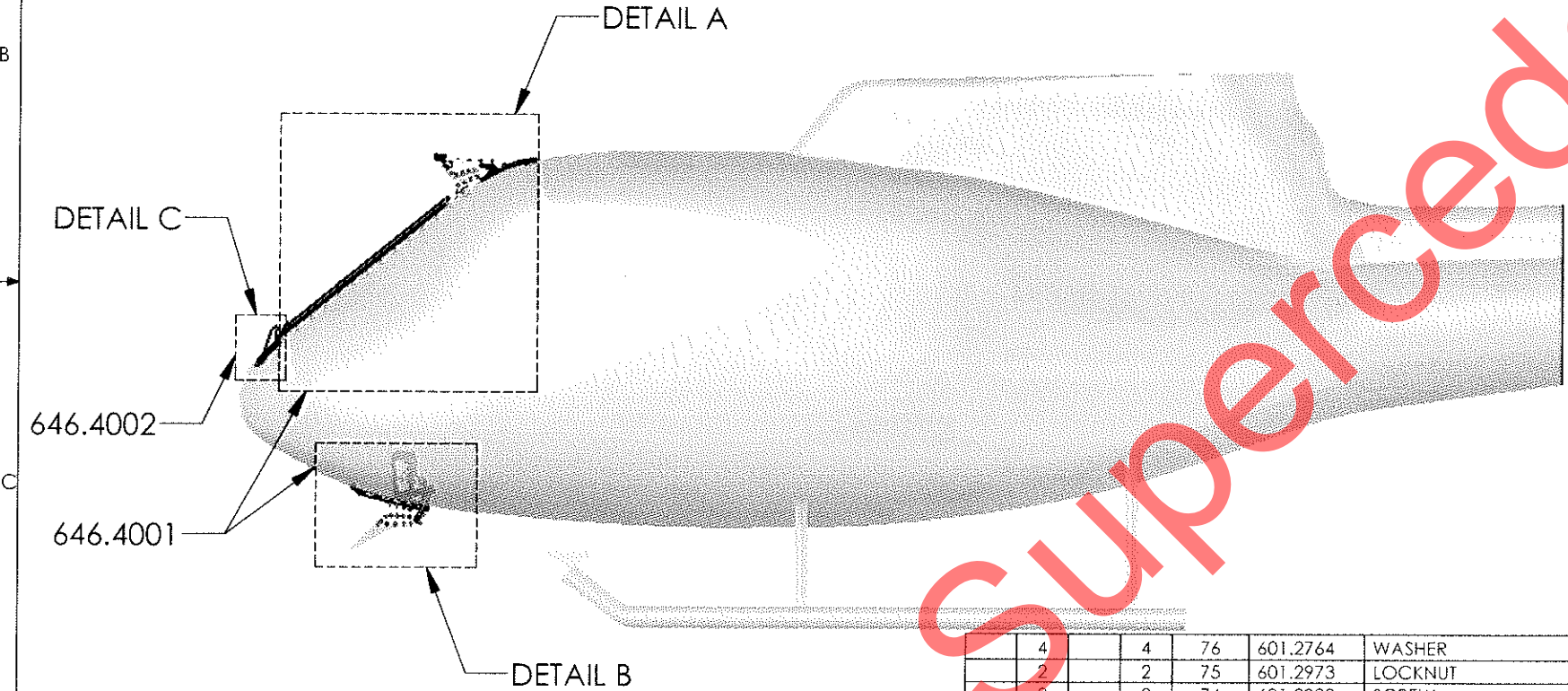


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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECN5 02199, 02351, 02719 & 02765	02/08/2010	P. BRAVO
B	INCORPORATED ECN 03046, 03079 & 04731	11/04/2014	P. BRAVO

NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES
- 2 INSTALL F/N 14 WITH F/N 52 & 53
- 3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE  
VENDOR : MCMaster-CARR P/N 75935A651
- 4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE  
VENDOR: R.S. HUGHES P/N 021200-24216
- 5 REUSE FASTENERS FROM F/N 1
- 6 USE WASHERS AS REQUIRED AS SHIMS TO OBTAIN BEST FITMENT
- 7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ONTO F/N 1

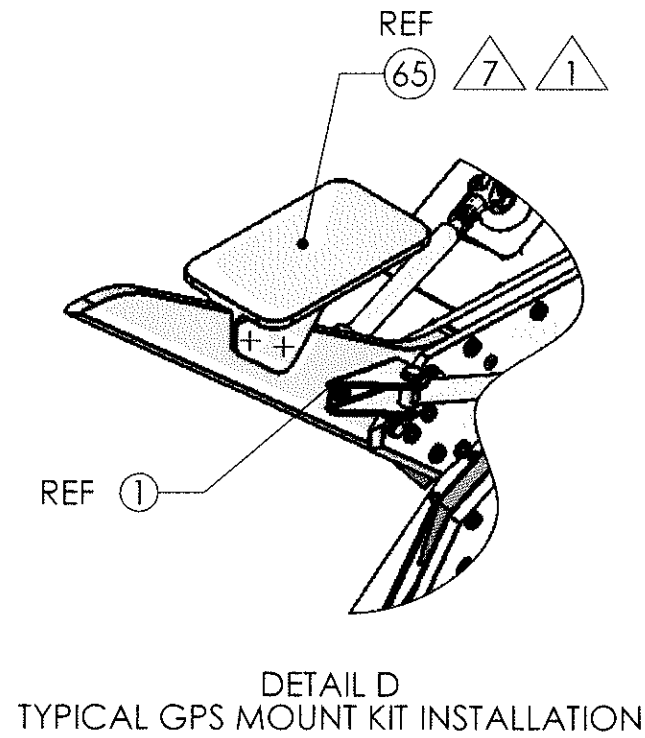


4		4	76	601.2764	WASHER	NAS1149F03832 P	
2		2	75	601.2973	LOCKNUT	MS21042-08	
2		2	74	601.2988	SCREW	MS27039-0813	
2		2	73	601.2943	LOCKNUT	MS21042-3	
2		2	72	601.3128	NUT	AN316C4R	
2		2	71	601.3209	LOCKNUT	MS21042L4	
4		4	70	601.2638	WASHER	NAS1149F0432 P	
2		2	69	601.2669	BOLT	AN4C7A	
2		2	68	601.3119	CLEVIS	AN665-34R	
2		2	67	601.3121	EYE BOLT	AN44-5A	
2		2	66	650.9201	EYE BRACKET ASSY		
REF	REF	REF	65	647.5701	GPS MOUNT KIT		
		6	64	601.3151	WASHER	NAS1149F0383P	
		2	63	601.2911	SCREW	MS24694553	
2		2	62	601.2637	SCREW	MS27039-1-16	
2		2	61	601.2763	BOLT	AN3-12A	
1		1	60	646.3913	SHIM		
4		4	59	646.3912	SHIM		
1		1	58	646.3911	SHIM		
4		4	57	646.3910	SHIM		
5		5	56	600.1013	PRIMER		
.4004	.4003	.4002	.4001	FIND #	PART #	DESCRIPTION	SPEC.

8 FT		8 FT	55	600.0129	VHB TAPE		
1	1	1	54	600.1012	SEALANT	PR-1425 CLASS B	
1		1	53	600.0991	MAGNOBOND 6398 PART B		
1		1	52	600.0990	MAGNOBOND 6398 PART A		
10		10	51	601.2826	BOLT	AN3-11A	
	2		50	646.3814	WIPER BRACKET		
	2		49	601.2910	SCREW	MS27039-1-18	
2		2	48	601.1365	SCREW	MS27039-1-10	
2		2	47	646.3719	DOUBLER		
2		2	46	646.3718	CUSTOM WASHER		
1		1	45	646.3717	DOUBLER		
22	2	22	44	601.1948	SCREW	MS27039-1-19	
2		2	43	601.1952	SCREW	MS27039-1-20	
4		4	42	601.1956	SCREW	MS27039-1-21	
2		2	41	601.2829	SCREW	MS24694554	
2		2	40	601.2831	RIVET	MS20426AD5-7	
1		1	39	646.3716	GAUGE BRACKET		
6		6	38	601.1953	SCREW	MS27039-1-12	
2		2	37	646.3715	STRUT DOUBLER		
2		2	36	601.2824	BOLT	AN3-5A	
36		36	35	601.2277	RIVET	CCR264SS-3-02	
18		18	34	600.0795	NUTPLATE	MS21047-3	
3		3	33	601.2565	RIVET	MS20470AD5-7	
1		1	32	646.3813	STRUT BRACKET		
4		4	31	601.2822	BOLT	AN3-3A	
2		2	30	646.3812	GUSSET BRACKET		
8		8	29	601.2564	RIVET	MS20470AD5-6	
1		1	28	646.3714	GUSSET		
1		1	27	646.3610	FILLER		
1		1	26	601.2830	SCREW	MS24694555	
2		2	25	601.2825	BOLT	AN3-6A	
1		1	24	646.3811	RADIUS BLOCK		
1		1	23	646.3712	CLIP		
1		1	22	646.3711	CLIP		
8		8	21	601.2832	RIVET	MS20470AD5-5.5	
14		14	20	601.2020	RIVET	CR3213-5-3	
10		10	19	601.2823	BOLT	AN3-4A	
1		1	18	601.2827	BOLT	AN3-13A	
5		5	17	601.2912	SCREW	MS24694551	
1		1	16	646.3713	GUSSET		
1		1	15	646.3210	SUPPORT		
1		1	14	646.3710	DOUBLER		
1		1	13	646.3110	CHANNEL		
8	53	6	12	601.1624	LOCKNUT	MS21042L3	
18	120	16	11	601.1607	WASHER	NAS1149F0332P	
		1	10	646.3410	LH WIPER DEFLECTOR		
		1	9	646.3411	RH WIPER DEFLECTOR		
2		2	8	647.7703	STRUT ASSY		
2		2	7	647.0112	STRUT BRACKET		
1		1	6	646.3511	STRUT		
2		2	5	646.3510	STRUT		
1		1	4	646.3810	BRACKET		
1		1	3	646.2910	DEFLECTOR		
1		1	2	646.3001	LOWER CUTTER ASSY		
1		1	1	646.3301	UPPER CUTTER ASSY		
X				646.4004	FIXED PROVISIONS KIT		
X	X			646.4003	CABLE CUTTERS KIT WITHOUT FIXED PROVISIONS		
		X		646.4002	AS350 WIPER DEFLECTOR KIT		
		X		646.4001	AS350 CABLE CUTTERS KIT		

QTY				PARTS LIST			
NEXT ASSY (S)				APICAL INDUSTRIES			
				2608 TEMPLE HEIGHTS DR.			
				OCEANSIDE, CA. 92056-3512 (760)724-5300			
				AS350 CABLE CUTTERS KIT			
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°			
SIZE	CAGE CODE	DWG. NO.	REV.				
B	07MZ6	646.4000	B				
SCALE NONE				SHEET 1 OF 4			

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DETAIL D

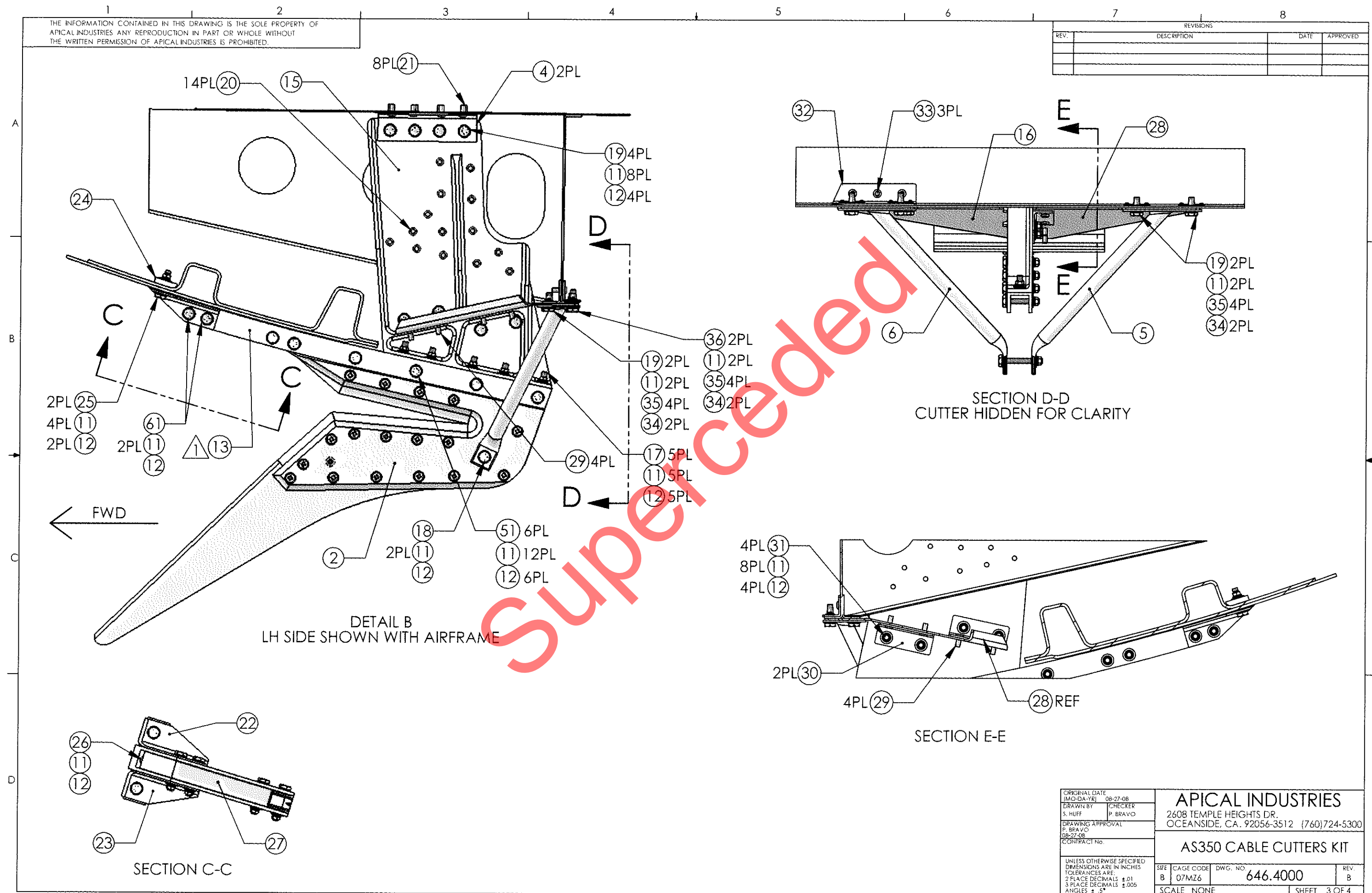
DETAIL A  
SHOWN ISOMETRICALLY

ORIGINAL DATE (MO-DA-YR) 08-27-08		APICAL INDUSTRIES	
DRAWN BY S. HUFF		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKER P. BRAVO		AS350 CABLE CUTTERS KIT	
DRAWING APPROVAL P. BRAVO			
CONTRACT No.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SHEET 2 OF 4	REV. B
SHEET B	CAGE CODE 07MZ6	DWG. NO. 646.4000	SCALE: NONE



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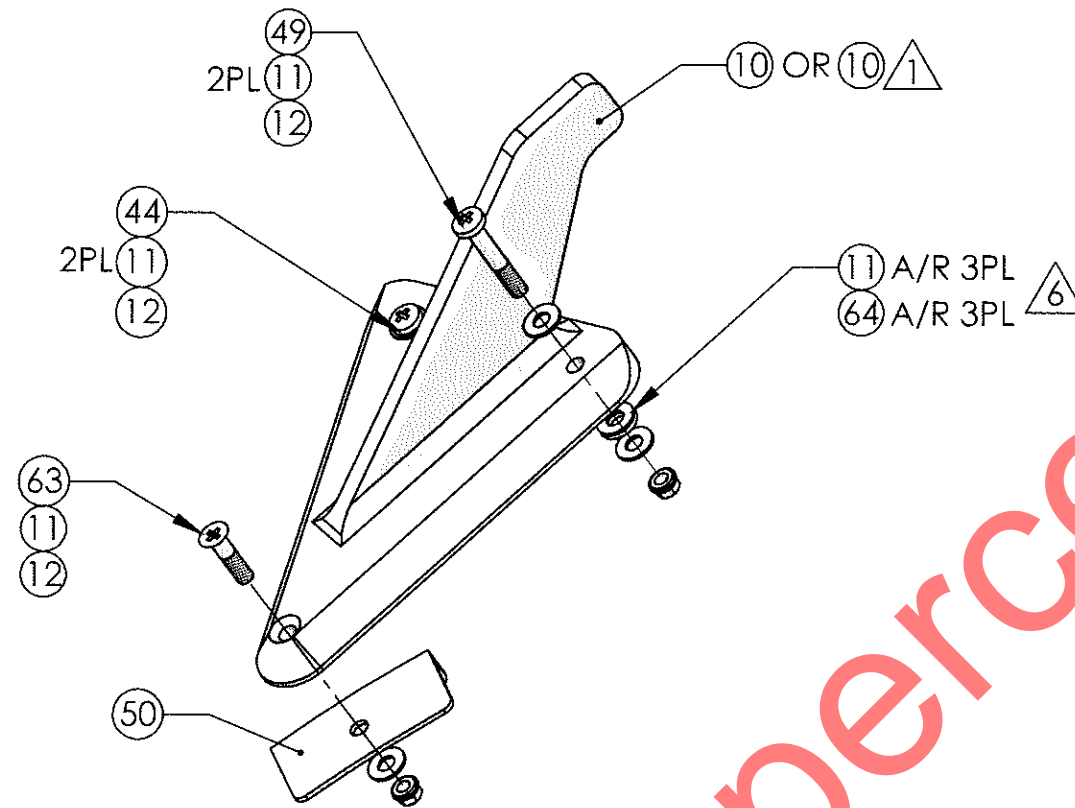
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



ORIGINAL DATE (MO-DA-YR) 08-27-08		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWN BY S. HUFF	CHECKER P. BRAVO	AS350 CABLE CUTTERS KIT	
DRAWING APPROVAL P. BRAVO 08-27-08		SIZE B	REV. B
CONTRACT No.		CAGE CODE 07MZ6	DWG. NO. 646.4000
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SCALE NONE	SHEET 3 OF 4

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



DETAIL C  
LH SHOWN EXPLODED  
RH OPPOSITE

ORIGINAL DATE (MO-DA-YR) 08-27-08		APICAL INDUSTRIES	
DRAWN BY S. HUFF		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKER P. BRAVO		AS350 CABLE CUTTERS KIT	
DRAWING APPROVAL P. BRAVO 08-27-08		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°	
CONTRACT No.		SIZE B	REV. B
		CAGE CODE 07MZ6	DWG. NO. 646.4000
		SCALE NONE	SHEET 4 OF 4